



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer Term 2018

Course : Applied Chemistry

Faculty : amsudame - Mrs. Aruna M.

Sudame

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Water technology:- Introduction	03/05/2018	BCHL103	A
1	2	Purification of domestic water	03/05/2018	BCHL103	A
1	3	Concept of Hardness Scale of hardness units of hardness	04/05/2018	BCHL103	A
1	4	Softening Methods- lime soda -Principle, reactions, process	04/05/2018	BCHL103	A
1	5	Zeolite Process: Principle Process , limitation	05/05/2018	BCHL103	A
1	6	Ion -Exchange Method: Principle Process, Advantages	05/05/2018	BCHL103	A
1	7	Boiler Trouble: Caustic Embrittlement, Boiler corrosion	07/05/2018	BCHL103	A
1	8	Boiler Trouble: Scale & Sludge Formation	07/05/2018	BCHL103	A
1	9	Tutorial-1: Lime soda Numerical	09/05/2018	BCHL103	A
1	10	Tutorial-2: Lime soda Numerical	09/05/2018	BCHL103	A
1	11	Boiler Trouble: Scale & Sludge	10/05/2018	BCHL103	A
1	12	Internal Treatment Methods(Carbonate & Phosphate conditioning)	10/05/2018	BCHL103	A
1	13	Internal Treatment Methods(Calgon & Colloidal conditioning)	11/05/2018	BCHL103	A
1	14	Lime-Soda numerical	11/05/2018	BCHL103	A
2	15	Lubricants:- Introduction & Mechanism: Hydrodynamic lubrication	12/05/2018	BCHL103	A
2	16	Mechanism of lubrication: Boundary & Extreme-pressure lubrication	12/05/2018	BCHL103	A
2	17	Types of Lubricants: Solid Lubricant : Ex. Graphite	14/05/2018	BCHL103	A
2	18	Semisolid Lubricants- Preparation & Properties of Greases	14/05/2018	BCHL103	A
2	19	Tutorial-3: Lime soda Numerical	16/05/2018	BCHL103	A
2	20	Tutorial-4: Lime-Soda numerical: Raw Water & Treated Water combine	16/05/2018	BCHL103	A
2	21	Properties of lubricant: Viscosity & V.I , Cloud Point & Pour point	17/05/2018	BCHL103	A



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2	22	Properties of lubricant :Flash & Fire point, Aniline point	17/05/2018	BCHL103	A
2	23	Criteria for selection of lubricant	18/05/2018	BCHL103	A
3	24	Corrosion:- Introduction, Theories of Corrosion, Atmospheric and	18/05/2018	BCHL103	A
3	25	Electrochemical Corrosion	19/05/2018	BCHL103	A
3	26	Differential aeration theory of corrosion & Factors Affecting Corrosion	19/05/2018	BCHL103	A
3	27	Types of corrosion	21/05/2018	BCHL103	A
3	28	Protection against Corrosion-Design & Material selection	21/05/2018	BCHL103	A
1	29	Tutorial-5: Lime-soda numerical	23/05/2018	BCHL103	A
1	30	Tutorial-6: Lime-soda numerical	23/05/2018	BCHL103	A
3	31	Protection of Corrosion:- Cathodic and Anodic protection	24/05/2018	BCHL103	A
6	32	Advanced trends:- Cement ,types and properties	24/05/2018	BCHL103	A
6	33	Polymers, Teflon, Bakelite and conducting polymers	25/05/2018	BCHL103	A
4	34	Fuels & Combustion:- Calorific value: GCV & NCV	25/05/2018	BCHL103	A
4	35	Determination of calorific value by Bomb calorimeter correction	26/05/2018	BCHL103	A
4	36	Determination of calorific value by Boys calorimeter numerical	26/05/2018	BCHL103	A
4	37	Significance of ultimate analysis , Pulverized Coal and Storage of Coal	28/05/2018	BCHL103	A
4	38	Liquid fuel & fractional Distillation of Crude oil	28/05/2018	BCHL103	A
4	39	Tutorial-7: Combustion calculation	30/05/2018	BCHL103	A
4	40	Tutorial-8: Combustion calculation	30/05/2018	BCHL103	A
4	41	Cracking :	31/05/2018	BCHL103	A



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4	42	Cracking : Fluid bed catalytic Cracking	31/05/2018	BCHL103	A
4	43	Synthesis of Synthetic gasoline:	01/06/2018	BCHL103	A
4	44	Synthesis of Synthetic gasoline: Fischer-Tropsch Process	01/06/2018	BCHL103	A
4	45	Knocking in Internal Combustion Engine	02/06/2018	BCHL103	A
3	46	Battery Technology:- Construction & working of Lead-Acid Battery	02/06/2018	BCHL103	A
3	47	Construction & working of Lithium ion Battery	04/06/2018	BCHL103	A
5	48	Green Chemistry	04/06/2018	BCHL103	A
4	49	Tutorial-9: Combustion calculation	06/06/2018	BCHL103	A
4	50	Tutorial-10: Combustion calculation	06/06/2018	BCHL103	A
4	51	Combustion calculation	07/06/2018	BCHL103	A
4	52	Combustion calculation	07/06/2018	BCHL103	A
1	53	Lime-soda numerical	08/06/2018	BCHL103	A
1	54	Lime-soda numerical	08/06/2018	BCHL103	A
4	55	Tutorial-11 Combustion calculation	09/06/2018	BCHL103	A
4	56	Tutorial-12 Combustion calculation	09/06/2018	BCHL103	A